South Bay Users Group

Dynamic Memories ™

JULY, 1986

SOUTH BAY USERS GROUP

PAGE---CONTENTS

LOOK--PAY ATTENTION**--the next SBUG meeting will be held at the Cupertino library. Time: 7:15 P.M.

The next 3 meetings will be held on July 15, August 19 and September 16.

Certain discerning minds have discovered that if the proper calculations are made it may be determined that our meetings are held on the third Tuesday of each calender month.

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MEMBERSHIP

If you wish to become a member of SBUG and start receiving our newsletter "DYNAMIC MEMORIES", then send $20 (check or money order) to the following address;

> South Bay TRS-80 Users Group
> P.O. Box 60116
> Sunnyvale, Ca. 94088

or come to one of our meetings. If you also wish to communicate with our bulletin board system (SBUG-80) then include an additional $25 (a one time fee) for an account on the system. You must be a member of SBUG to have an account on the system. Please include your address and phone number.

¶¶¶

SBUG STEERING COMMITTEE

TITLE		USERNAME	PHONE
Chairman:			
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Treasurer: (Pro-tem)			
	Chris Oman	OMAN	(408) 985-9460
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OTHER KEY INDIVIDUALS

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	Wright Huntley		
Host Computer:			
	SBUG	(ALL)	(408) 249-8259

If the need arises, give anyone of us a call.

THE EDITOR'S BYTES AND BITES

This is in homage to a departed member, Don Rhodes. No, he has not died, he has moved to Los Angeles, arguably a more bitter fate. Don was our treasurer, a good one, and he was a great deal more. He took over the treasurer's job when the club's affairs were in disarray. For the first time in the club's history we had a legible, complete, monthly financial report.

Don was also the moving spirit (seconded by various) in setting up the new club bulletin board. He wrote articles for Dynamic Memories, he was a major contributor to the bulletin board, he was incessantly curious about the microcomputer field, constantly contributing bits and pieces of information that amplified the knowledge of all of us.

His programming skills and all around expertise made him a welcome contributor to the bulletin board, to the newsletter and in conversation.

We miss you, Don. There's no hope of saving L.A., but you'll certainly help to make it more bearable.

One thing more. What have YOU done for the club lately?

SBUG Financial Statement

June 28, 1986

Receipts:	May	Y-T-Date	% Used	Budget
Members dues	20.00	629.00	62.90%	1000.00
SBUG BBS Dues	25.00	25.00	12.50%	200.00
Disk Library	0.00	62.00	51.67%	120.00
Load80	0.00	216.00	108.00%	200.00
Documentation	0.00	0.00	0.00%	40.00
Interest	2.21	15.26	50.87%	30.00
Total Receipts	47.21	947.26	59.58%	1590.00

Disbursements

	May	Y-T-Date	% Used	Budget
Phone	0.00	254.19	105.91%	240.00
Utilties	0.00	40.00	264.00	
Printing	63.29	366.48	101.80%	360.00
Postage	22.00	116.00	77.33%	150.00
P O Box	29.00	29.00	111.54%	26.00
Bank charges	4.00	0.00	0.00	
Disk Library	0.00	204.97	409.94%	50.00
Documentation	0.00	0.00	0.00%	80.00
SBUG BBS	0.00	0.00	0.00%	200.00
Total Disbursements	118.29	1010.64	73.77%	1370.00

Begin				
Cash Balance	353.81	519.62	100.00%	519.62
Net Receipts	-71.08	-63.38	-28.81%	220.00
Ending Balance	282.73	456.24	61.69%	739.62

SOUTH BAY USERS GROUP

GLORIOUS NEWS

We will have a new treasurer next month, the honorable Henry Schultz. He is not listed with the club officers on page two this month because the formal investiture has not yet taken place. Once the ceremonial robe has been placed around his shoulders and he has accepted the red and blue pens signifying his high office he's hooked. I mean it becomes official.

EXPAND YOUR PRINTER TO 64K FOR 8 CENTS A BYTE

by Ian Webb;

Not very long ago, memory at 8 cents per byte would have been considered amazing. For that price you can get memory plus a neat package to expand your Epson MX, RX, FX series printer to include a 64K built-in buffer.

Be warned that not all programs can effectively use a printer buffer, but even some that don't mate too well with a buffer can at least be sped up with a hardware buffer.

Wordstar isn't very fast at printing. Compared to SuperScripsit it barely pokes along as it checks each line of text before it prints it. Even with a buffer in use, over four or five pages, you only release the system with perhaps a half page left to print. However, you discover that for some reason, the printing itself is appreciably faster when a buffer is attached.

So, even with a slow word processor like Wordstar, you finish your printing perhaps one third faster. Other programs can be MUCH faster. DOS print screen happens almost instantly and if you copy a file to the PRN: you are done almost before you can look back from the just starting printer.

The biggest gain I have found for my own extensive use of Wordstar is when printing my final copy in Near Letter Quality mode using a Finger Print LetterWriter (Dresselhaus) on an FX-100, my computer is freed about half way through printing a full page document.

I saw an advertisement in Computer Shopper for a 64K printer buffer for $55 and wrote for information. I received back a rather complete letter with information and the word that he was selling the unit for $50 since the ad had been first placed. I sent a check for $50 and received the unit by US Mail in about a week. I received a "Wizard" buffer manufactured by Wesper Microsystems. The circuit board looks well made and after removing the cover to your Epson printer, you plug it in directly in the connector already provided. By removing the blank over the existing parallel connector, the new board provides a new parallel connector above the old. You put your cable into the new connector and after that everything is automatic. There are four screws and washers to hold the board on posts that are in the printer.

You do have to make sure that the DIP switches power up the printer with the printer selected (normally you set them this way anyway) and unless you have a unit like the Finger Print you have to turn off the power to flush the printer buffer if you stop things in the middle of a print run. (The Finger Print unit I have allows the buffer to be dumped from the push-buttons.

If you have always wanted a hardware buffer, here is a chance to get one at less than half the price of the Tandy buffer. You don't need extra cables and you don't need to find room on your desk for it. You do lack a few features on some of the more expensive buffers like the ability to print multiple copies or to repeat pages, but for the price it is hard to beat.

Source: Brian K. Blasjo, 5391 Sunnyside Dr., Riverside, CA 92504
Telephone (714) 688-7933

Epson 64K print buffer, $50 - State printer model (parallel only)

REPLACE YOUR Z-80 WITH A SUPER CHIP

from NORTHERN BYTES

David G. Huffman (1345 Williams Street, Des Moines, Iowa 50317) recently sent me information on a project that he has been working on. Apparently the Z-80 CPU used in the TRS-80 Models I/III/4 and in the LNW computer (which is what David uses) can be replaced with a Hitachi HD64180 CMOS Microprocessor. The HD64180 is NOT pin-compatible with the Z-80, but offers much more, thus hardware types may wish to tackle a conversion project.

Some of the features of the HD64180 include: Fast operating frequency (up to 10 Mhz). On-chip Memory Management Unit supports 512k byte memory and 64k I/O address space. Two-channel Direct Memory Access Controller with memory-memory, memory-I/O, and memory-memory mapped I/O transfer capability. WAIT Input and Wait State Generator for slow memory and I/O devices. Programmable dynamic RAM refresh addressing and timing. Two-channel, full duplex Asynchronous Serial Communication Interface with programmable Baud Rate Generator and MODEM control signals. Clocked serial I/O port with high speed operation (up to 300k bps at 6 Mhz). Two-channel 16 bit Programmable Reload Timer for timing and output waveform generation. Programmable Interrupt controller manages 12 interrupt sources (8 internal, 4 external) with 3 interrupt modes. "Dual Bus" interface compatible with all standard memory and peripheral LSI.

Enhanced standard 8-bit software architecture features include: Upward compatible with existing Z-80, 8085 and 8080 system and applications software. Optimized for higher performance of standard 8-bit operating systems (e.g. CP/M80). Enhanced instruction set including high speed multiply, I/O address relocation for board level product compatibility. SLEEP, IOSTOP, and SYSTEM STOP low power modes. Many existing Z-80/8080 instructions require fewer clock cycles to execute, thus, even with no change in CPU clock speed programs may run 10% to 20% faster.

David reports that there is only one problem in replacing a Z-80 instruction set with a HD64180, and that is that the HD64180 does not recognize the "undocumented" Z-80 instruction set (those machine language instructions that, although they do not appear in the official Z-80 instruction set, nevertheless are recognized by virtually every Z-80 ever made). David has found that a surprising amount of TRS-80 software makes use of the undocumented instructions. In his LNW conversion, he has figured out a way to divert those instructions to a section of code that translates the "undocumented" instructions to standard Z-80 code, executes it and returns to the original program.

It is my understanding that David is working on a Model 4 conversion using the HD64180. If you are a hardware hacker you may wish to obtain data and specifications sheets on this chip from your nearest Hitachi representative (or a Hitachi regional office

in Burlington, Massachusetts, Dallas, Texas, Itasca, Illinois, San Jose, California or Woodland Hills, California). In Canada contact an office of Longman Sales Inc. (Mississauga, Ontario or Kirkland, Quebec).

Will this chip spawn the next generation of modifications for the Models I/III/4? It certainly seems to offer a lot of potential.

CLONE OF MY DREAMS

by Editor

We do not all have the same desires when it comes to choosing spouses--fortunately for the perpetuity of the race; nor would we all choose the same components or types of components to make up a clone, fortunately for the manufacturers of said components.

The magazine references used here are heavily weighted towards COMPUTER SHOPPER. This is because COMPUTER SHOPPER is par excellence, the magazine for the less affluent hobbyist and hacker. BYTE is for the engineer, the top notch technician and the company purchasing agent.

The following dream clone (sans flowing golden hair (put that on the chest if you're feminine)) is chosen from picking through the ads in BYTE, INFOWORLD and COMPUTER SHOPPER. It is not an ideal clone, which might run to $20,000 and it is completely idiosyncratic. If you don't like my clone, dream your own dreams.

I have included my reasons for choosing certain features. Anyone who agrees with all my choices is obviously a rare and discerning person.

The components are numbered and the comments on them follow the list of components and are keyed to the list with the same numbers.

	COMPONENT	PRICE	SOLD BY	MAG.	PAGE
1.	AT MOTHERBOARD	799	PREF.SOURCE	C.SHOP.	308
2.	200W POWER SUPPLY	269	PREF.SOURCE	C.SHOP.	308
3.	30 MB HARD DRIVE	349	LEAD.EDGE	C.SHOP.	299
4.	QUIMAX MONITOR	159	TINMA	C.SHOP.	231
5.	METAL CASE	89	YILON	C.SHOP.	22
6.	2 1.2 FLOPPIES	338	C.LA P.	INFO.	57
7.	5153 KEYTRONICS	319	C.La P	INFO	57
8.	FLOP.CONTROLLER	99	COMPAT.WHSE	C.SHOP	233
9.	HD CONTROLLER	139	COMPAT.WHSE	C.SHOP	233
10.	R.S.232 CARD	30	MAGITRONIC	C.SHOP	32
11.	MONO/GR CARD	119	LOGICSOFT	BYTE	49
12.	ASS.HARDWARE	100			
	TOTAL	$2809	(CHEAP)		

DREAM CLONE EXPLAINED

1. This comes with 640k and bios installed, expandible to 1 meg. Nowadays 640k is not enough, but that can be taken care of by installing more RAM.

2. I attach a lot of importance to the power supply and wouldn't feel easy with less than 200W for an AT type.

3. 30 Mb should be enough and the price makes this a real buy. Leading Edge has a good reputation.

4. Be careful when you buy a monitor. All the ads say hi-res. It's something like saying a man is honest. How honest? How hi-res? This one is 13", comes with cable and 750 by 350 resolution. I had a hard time deciding not to get color. We will see color used increasingly in applications such as word processors, databases and spreadsheets. The use of color can be very effective as a teaching device and for delineation..

5. I don't think there is much difference in cases unless you look for a real cheapie.

6. Why two floppies? Why 2 1.2 meg. floppies? What do you do when the HD goes out? If you have two floppies you're still in the game. If they're 1.2 floppies you should be able to handle almost any job you were doing on the HD.

7. This is the AT keyboard and Keytronics makes the best. A little on the expensive side but if you've ever suffered from a poor keyboard you won't argue with this one.

8. With serial, parallel and clock.

9. Cable included

10. Can't do without it if you have a modem.

11. 720 X 348 pixel graphics, parallel printer port, Lotus 1-2-3 compatible with TTL monochrome output.

12. For cables, screws and assorted small hardware. Something is always missing. (For details see Murphy's law)

Finally, although this dream was fun, I wouldn't think of doing this in real life. Things that should be compatible--aren't. Any important components should be bought from your friendly neighborhood computer dealer who will happily receive returns of faulty merchandise. Buying things by mail order can be advantageous. The use of credit cards gives the purchaser a 30 day guarantee where the exercise of the guarantee is at the purchaser's option. THis is fine when you're buying a piece of software or minor hardware. Not so in this case. Returning a flawed motherboard three or four times could exhaust the patience of any computer hobbyist. (Notably patient people.)

ZUCKERBOARD
by Editor.

All of you Model 1000 users should read the article on the Zuckerboard on page 77 of the July COMPUTER SHOPPER. It is more interesting and dependable than the usual review because the reviewer owns a Model 1000, works with a model 1000 and installed the board himself. Of course the last review of that type that I read was written by a fellow who had just bought an LNW.

SOUTH BAY USERS GROUP

WHO WE ARE

Names and telephone numbers of SBUG members

LNAME	FNAME	PHONE #	PHONE #
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Pitre	Thomas J.	(408) 294-2256	

Rhodes	Donald C.	SEE BULLETIN BOARD	
Schulze	Henry	(408) 866-8531	
Severin	Hank	(408) 252-0992	
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Thompson	Bernard	(408) 867-74555	
Thompson	Ronal	(408) 378-1723	
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SOUTH BAY USERS GROUP

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Langwel	Ron L.	(408) 262-5193
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Lynn	J. Kevin	(408) 923-6010

MODEL 4 CORNER

by Editor

I frequently speak of AIDSPLUS-II because it is a really excellent database file manager. I used to work with PROFILE and wasn't unhappy about it because it was a well debugged program and never gave me any trouble. However, Profile was slow as molasses and AIDSPLUS-II is fast as a fly.

AIDSPLUS is written in machine language. There have been various revisions and I simply can't think of how it could be made better, except that it is not relational-- not quite. Recently I got a flyer from SOFTRENDS regarding updates, more properly added functions for AIDSPLUS. I purchased two of them for $49, and the only one I have used is excellent, I could almost say extraordinary.

I will quote from the brochure: RE-VISE is a new extended function designed to work within your existing AIDSPLUS-II system. It enables you to <u>directly access individual records</u> within a data file -- even if it's the size of a whole disk! REVISE is great for updating large mailing lists, looking up account balances, or locating data that may be in any one of several files. You can <u>retrieve a record</u> from the disk, <u>view it</u>, <u>change it</u>, and <u>put it back into the file</u>. Records do not have to be in sorted order, and <u>no index files</u> are used (saves disk space).

This is really an unusual and time saving function. It approaches relational filing. Please follow me. Boot up AIDSPLUS-II. Go into the descriptor file. The descriptor file may hand a number of data files. You may remove any given record from file 1, update it and return it to the file. If you had similar records on file 2 you could do the same, thus achieving the same result as is given by relational files. You might call it a manual relational file. Then again you might not.

I also got FILEAID. This gives me the ability to handle disk-size files for sorting. My original copy of AIDSPLUS-II loads the data into memory and even though AIDS uses a very competent storage method it typically limits the user to 400 records depending on the number of fields. I haven't used FILEAID yet, but it's there if I need it. SOFTRENDS claims the sort is at least twice the speed of a P.C. sort. I haven't caught them lying yet. AIDSPLUS-II also has an automation process called AUTOKEY. Once this has been set up a single keystroke would be sufficient to sort 800 records.

Two other new functions, AUTOMATE & AUTOLINK were also advertised but I didn't buy them. I don't do that much complicated automated work.

RE-VISE is a great program. If you have to update individual records frequently, as most database users do, it's a real time saver.

LIST OF MSDOS PUBLIC DOMAIN PROGRAMS

DIR CONTENTS	DIR CONTENTS
1 Basic Utilities	11 Communications
2 Disk Utilities	12 Databases: dBase,etc
3 Display Utilities	13 Games
4 File Listing Util.	14 Music & Graphics
5 Library Utilities	15 "C" Language Pgms.
6 ARC/Squeeze Utilities	16 Assembler
7 Printer Utilities	17 Spread Sheets
8 Keyboard Utilities	18 Business/Financial
9 File Handling Util.	19 MACIntosh SIG
10 Miscellaneous Util.	20 Commodore SIG
21 Word Processing	22 Forth SIG
23 Educational	24 Pascal
25 Amateur Radio	26 Patches & Pgm Notes
27 Miscellaneous	28 Not Available
29 PC-JR Programs -	30 Advertisements/Demos

DIR2
==================== DISK UTILITY DIRECTORY ====================

NAME	EXT	SIZE	EFF.DATE	DESCRIPTION OF FILE
			==========>04-11-85	Disk Utilities
SPEED	ARC	986	04-24-84	Adjust speed of disk drives
FD	COM	512	07-19-84	Speeds up disk access by 25%
FD	DOC	256	07-19-84	Documentation for FD.COM
Z	EQE	8014	08-22-84	Nice nav. aid for hard disk users
DRV	EQE	7435	09-16-84	Shows free space on drives.uses dos 2
PATCH	ARC	8157	11-17-84	Diskette look/mod utility (a la Norton)
FREE	COM	1024	02-05-85	Shows free space on drives (FAST)
SLMNU	EQE	51675	04-08-85	Software Labs. Disk Manager (lite testing)
DISKORAY	EQE	4559	02-01-85	Check your disk drive speed.
DEFRAG	BQS	4656	05-30-85	Defragment disk space. (untested)
IBU	ARC	46080	06-27-85	Incremental Backup Utility. HardDisk.(untest)
DISKPARK	LQR	6272	07-22-85	Park them hard disks. (untested)
CACHE	COM	640	08-12-85	38k disk cache. improves hd speed 20% (untest)
CACHE1	ARC	20516	08-29-85	Cache maker, includes size of cache. (untest)
ZAP	EQE	10341	09-23-85	COMPLETELY wipeout harddrive subdir

(Use with extreme caution! No "are you sure?" protection)

DOSAMATC	ARC	71680	09-23-85	disk manager and pseudo-multitasker
DSKWATCH	ARC	5120	09-05-85	DISK Err monitor from PC-Mag. (untest).
DM9-23 files/subdir	ARC	47872	10-20-85	Directory Master & DOS util. 1500
FINDUPE2	ARC	22057	10-20-85	Find duplicate files in all directories.
PARKDISK	ARC	10118	10-27-85	Generalized for any fixed disk. With ASM
REFRESH	ARC	1792	11-02-85	Reformat without losing data! (untested)
DPROT101 (untested)	ARC	3840	11-02-85	Write protect floppy or hard disk
SWEEP Mag](untested)	COM	640	11-08-85	Executes cmd in every DIR [PC
DELZ	COM	768	12-07-85	Allows use of DEL w/ ZERO fill option
DPROTECT	ARC	3915	12-07-85	Write Protects hard disks/floppy disks!!
DLENGTH	ARC	6016	01-03-85	Determines .DIR lengths for hard disk
HDPREPAT (UNTESTED)	ARC	24704	01-19-86	AT harddisk prep program ver 2.0
DU	BQS	4310	01-19-86	Lists bytes in each disk directory
SCANBAD essential	ARC	1152	01-26-86	Find & Mark bad sectors on floppies-
GLOBERAS command.CAREFUL!	ARC	1536	02-03-86	Erase files across subdir w/ 1
HDDIAG	CQM	15162	02-10-86	Excellent Diagnostic for AT Hard Disks
CACHE time !	ARC	5376	02-23-86	Hard disk cache speeds up disk access
ULTRA only.	ARC	164K	03-24-86	Utilities ala Norton. Very good. Floppy
FASTFMT Good.	ARC	22400	04-18-86	Utilize both floppies for formatting.
DISKSCAN	COM	1024	04-18-86	Check AT hard-disk for errors. (untest)
DM	CQM	39899	04-18-86	Disk manager, similar to 1-DIR.
HDPREP40	ARC	27520	04-25-86	Ver 4.0 of popular hdprep format utility.

=====================>04-11-85 Electronic Disk Utilities

RAMDISK	ARC	11757	04-03-84	180k & 360k device drivers for DOS 2.0
MEMBRAIN	ARC	6215	08-22-84	Ramdisk device driver, adjustable
QUADRAM	ARC	7705	02-27-84	QuadRAM RAMDISK 8/9 sector 320/360K
QUIKUP	ARC	1516	04-10-84	Quick start-up for IBM PC
VDISK	ARC	17893	05-30-85	Ram disk from 6K to 255K.

DIR3
=================== DISPLAY ORIENTED UTILITIES ====================

NAME	EXT	SIZE	EFF.DATE	DESCRIPTION OF FILE
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=====================>08-15-85 Display-oriented

SCRNSAVE	ARC	8558	02-28-84	Shut off screen after 3 min.
SAVE	COM	640	09-16-84	Saves image to inactive scrn Req 2 scrns
CL	ARC	901	12-12-84	Clears screen & sets attribute to amber
BACKSCRL	LQR	10855	12-18-84	Save and review up to 25 screens.
DOUBLE	EXE	2048	01-22-85	Clr. and Mono Displays At The Same Time
U-FONT	BQS	2498	02-21-85	Large screen printing, different fonts.
DOORS	ARC	1154	04-09-85	B&W/Color Monitor Switch

PCMAGAZINE

NAME	EXT	SIZE	EFF.DATE	DESCRIPTION
TST-SCRN	BAS	1536	04-18-85	Test Color and Graphics on Monitor.
KOLOR	ARC	2953	06-17-85	Allows you to change screen colors.
U		256	07-17-85	Disable Color for B&W Mon. ALT-TAB (Untested)
NOCOLOR	ARC	2844	07-22-85	Use B/W Mon with C/G card. (untested)
ANSI	LQR	15488	07-30-85	Description of ANSI escape codes w/demo
PCWNDW22	CQM	16122	08-01-85	Shareware Sidekick clone.
BORDER	ARC	4864	08-15-85	Set Border colors.
GATE	LBR	38016	09-24-85	A terminal emulater for cpm-80
PAGEDISP	ARC	23808	09-26-85	Text Slide-show Maker by Bill Hileman
DEMO100	ARC	66304	10-04-85	Slideshow in Turbo 3.0 w/ input list gen
CLOCK	COM	1024	11-16-85	PUTS TIME IN RT. CORNER W/ KEY
STATUS.				
BURN21	ARC	16000	12-07-85	Version 2.10 of BURNOUT
(screensaver).(untest)				
PROMPT	ARC	768	12-07-85	Set colors using ANSI.SYS and PROMPT
PUSH-POP	ARC	4864	12-20-85	Save & recover a color screen w/edit
IMMGR	ARC	35885	01-19-86	Take snapshot of screen, store, restore.
STYPE	COM	9856	04-25-86	TYPE for EGA card w/smooth scrolling
(untest)				

DIR5

■■■■■■■■■■■■■■■■■■ LIBRARY UTILITIES DIRECTORY
■■■■■■■■■■■■■■■■■■
NOTE: See Directory #6 for ARC utilities

NAME	EXT	SIZE	EFF.DATE	DESCRIPTION OF FILE
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■■■■■■■■■■■■■■■■■■■■■■■>09-12-85 LIBRARY Utilities

NAME	EXT	SIZE	EFF.DATE	DESCRIPTION OF FILE
LUPC	BAS	27136	02-25-84	Adds, lists, extracts - in BASIC
LU	EXE	22400	07-20-84	Adds, lists, extracts
LU	DOC	6272	07-20-84	LU documentation
VDBLU17	LBR	40576	08-22-84	LUE, LUT, and LUU w/source (use LUT18
below)				
LUT18	COM	2048	08-22-84	List LBR directory, sorted, with CRC.
LDIR	CQ	6407	10-14-84	Source Code for LU.EXE in;C language.
LURUN	EXE	10496	12-28-84	Run programs for .LBR files
LDIR03	EXE	16768	01-03-85	Provides directory of library files.
LRUN	LBR	12416	02-21-85	Run programs from within LBR.
LUE2	COM	2688	06-06-85	Latest ver. Extract/unsq LBR files.
LUE2	DQC	2432	06-06-85	Documentation for LUE2.COM
LU87500	EXE	24320	06-27-85	Version 8.75 of LU.EXE
LU86402	LBR	47744	09-29-85	great utilities

DIR9

■■■■■■■■■■■■■■■■■ FILE MANIPULATION DIRECTORY
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NAME	EXT	SIZE	EFF.DATE	DESCRIPTION OF FILE
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=====================>09-23-85 File Manipulation Utilties

TABS	ARC	1872	05-04-84	Replaces blanks with tabs, DOS 2.0.
MOVE	ARC	851	05-24-84	Move a file to a different subdirectory.
DIFF	ARC	11361	05-26-84	ASCII file compare with resynch ability.
UNWS	ARC	9112	02-07-84	Changes Word Star files to ASCII
FILEDUMP	EQE	20716	10-30-84	Dumps posn, char & HEX$ of file
CONVCOM	BQS	3498	12-18-84	Convert .COM programs to .BAS
WSDOS	CQM	25550	01-02-85	Convert DOS files to WS & visa-versa.
COPYQ	EQE	2309	03-11-85	Selectively copy files - wildcards OK.
RED	ARC	6107	03-25-85	Move files between DOS directories
DUP	EQE	3672	05-16-85	Supposed to copy "any" file. (untested)
BACKUP	LBR	7168	05-23-85	Fixes bugs in DOS3.0 Backup.com
FDUMP	COM	1152	06-27-85	Fast Hex/Ascii dump. Use FDUMP
<filename.ext>				
TAB2SPC	ARC	28800	08-22-85	Converts TABs to white SPACEs in files
LOWCASE	ARC	28416	08-22-85	Converts upper to lower case in files
PARTNER	ARC	35589	08-22-85	Resident file handling utility.
STRINGS	ARC	9216	09-12-85	Find strings in executable files
AUTOMENU	ARC	41065	09-23-85	Menu driven for PC version 3.01
DOSAMATC	ARC	71680	09-23-85	disk manager and pseudo-multitasker
PURGE	ARC	1898	10-02-85	Selectivly delete files displayed.
LF29A	LBR	14208	10-20-85	Directory lister for humans
SEARCH11	ARC	5504	10-20-85	Excellent! Finds programs and data files.
FILER	CQM	24877	11-16-85	Sorts dir w/ paths, multi-file copy/del.
VTREE	ARC	5632	11-16-85	Visual TREE cmd (PC Mag. Nov 12,85
w/ASM				
SWEEP	ARC	6144	11-16-85	Xeq cmd across subdirs(PC Mag. w/ASM)
POPSICLE	CQM	38336	11-16-85	Pop-up DOS disk/file/subdir utility
POPSETUP	CQM	19393	11-16-85	Customize utility for POPSICLE.COM
FILES	EQE	31621	12-07-85	DOS file manipulator. FILER Version 2.0
MARK	EXE	1152	01-03-85	Mark files READ-ONLY, HIDEN,
NORMAL.				
SORTF215	LBR	5504	01-21-86	Sort large files quickly. Single key.
CWEEP2	EQE	22856	02-03-86	CWEEP Ver 2. Copy, delete, view files
and more				
UNDEL	ARC	1280	02-10-86	A utility to undelete erased files on
floppies				
FDA	ARC	2816	02-10-86	Whereis with size,date,time & path -PC
Mag-2/86				
KNEW3	ARC	6016	03-24-86	Copies only new or modified files.
UTIL202	ARC	88K	03-24-86	Directory,File & Keyboard Utility Version
2.02				
COMDO120	ARC	156K	04-11-86	Ver1.2 of Sandy & Shane's new X-tree
like util.				
PAIRCRLF	ARC	1280	04-11-86	Filters to proper CRLF pairs. (untest)
CHOP6MOR	ARC	13056	04-11-86	Chop text up into pieces. (untest)
TSRFIX16	ARC	54272	04-11-86	Ver1.6 of TSR - Excellent Utilities! !
PFM	ARC	37632	04-18-86	File manipulator. Somewaht flaky
w/Color.				
PSRCH2	ARC	59008	04-18-86	Ver2.0 of SuperSearch.

To be continued in our next edition, don't miss this revelation!

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